

**ABSTRACT**

The present invention encompasses a syringe [(1)] of non-reusable type comprising: a container [(3)], a rod [(2)] cooperating with the container, a piston unit [(12)] inserted in and reciprocally disposed in the container, and a needle [(6)], the rod [(2)] being, by an axial displacement movement, moveably disposed reciprocally in said container [(3)] and displaying in its one end portion enclosed by the container a first coupling device [(13a)] within a two-part coupling arrangement [(13)] whose second coupling device [(13b)] is related to said piston unit [(12)]. Said two coupling devices (~~13a, 13b~~) assume a mutually cooperating and active position while the piston unit [(12)] is, by the movement of the rod [(2)], displaced from a position closely adjacent the needle [(6)] to a position distal from the needle [(6)] and causes said coupling devices (~~13a, 13b~~) to be gradually brought to an inactive position while the piston unit [(12)] is, by the movement of the rod [(2)], displaced from the distal position in relation to the needle [(6)] towards and/or to the position closely adjacent the needle [(6)], the two coupling devices (~~13a, 13b~~) permitting, in an inactive position, an axial movement of the rod [(2)] to take place without cooperation with the piston unit [(12)]. Said second coupling device [(13b)] is provided with means [(10)] which is rotatably coordinated with a piston [(12')] included in said piston unit.